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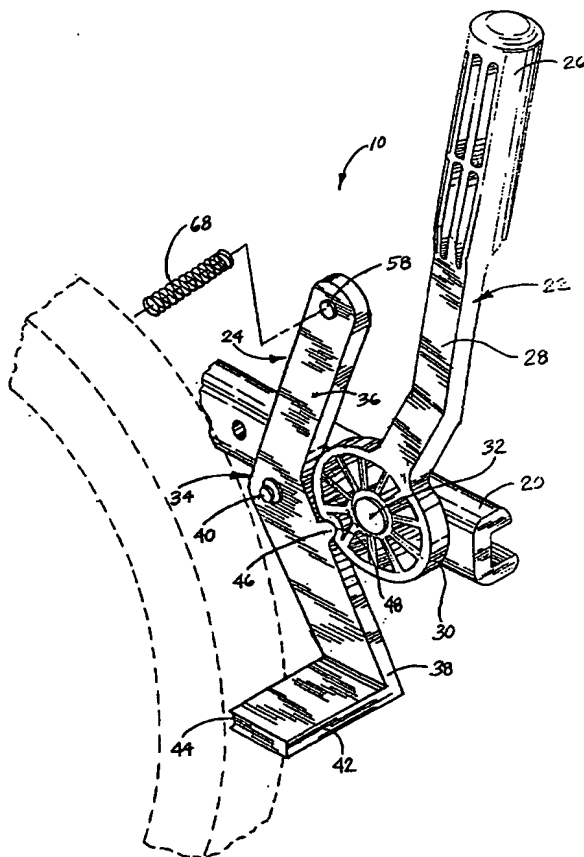
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[Continued on next page]

(54) Title: WHEELCHAIR WHEEL IMMOBILIZER



(57) Abstract: A wheel immobilizer (10, 54) for substantially preventing rotation of a wheelchair wheel or tire about a central axis thereof is provided comprising a pivoting wheel stop (24) carrying a detent (46) and a rotating cam (30) having a receiver (48). The detent seats in the receiver when the wheel immobilizer is in an unlocked position (with the wheel stop held at a spaced distance from the wheel) to allow rotation thereof. A lever (22) is operably connected to the cam, whereby actuating the lever rotates the cam and unseats the detent from the receiver, urging a wheel-contacting surface (42) of the wheel stop into locking contact with the wheel. In another aspect, a wheel locking assembly is provided comprising paired wheel immobilizers as described which may be operated independently. In still another aspect, a wheel locking assembly is provided comprising a first and second wheel immobilizer, wherein the first and second wheel immobilizers are operably linked by a flexible linkage (56).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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U.S. : 280/250.1,304.1;188/2F, 2D, 31, 33, 68, 69

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
BRS on EAST text search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/0018997 A1 (SUGANUMA) 06 September 2001 (06.09.2001), see entire document.	1-10
Y	US 5,145,197 A (GATTI) 08 September 1992 (08.09.1992), see Figure 14.	11-13
A	US 5,174,418 A (LE et al.) 29 December 1992 (29.12.1992), see entire document.	1-13
A,P	US 6,578,860 B1 (CHANG) 17 June 2003 (17.06.2003), see entire document.	11-13
A	EP 0,204,040 A (STRAUSS) 10 December 1986 (10.12.1986), see entire document.	1-13
A	US 6,170,615 B1 (CHENG) 09 January 2001 (09.01.2001), see entire document.	1-13

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☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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